



CAMOSUN COLLEGE
School of Arts & Science
Department of Biology

BIOL-124-001 & 002
Evolution and Diversity
WINTER 2021

COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/biol.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	David Raju	_____
(b) Office hours	ONLINE	_____
(c) Location	ONLINE	_____
(d) Phone	(250) 384-4479 (HOME)	Alternative: _____
(e) E-mail	raju@camosun.bc.ca	_____
(f) Website	_____	_____

2. Intended Learning Outcomes

Upon completion of this course the student will be able to:

1. Identify and classify living organisms to their major taxonomic groupings, and to list their defining characteristics.
2. Describe the major lines of evidence for evolution.
3. Explain major topics in evolutionary theory.
4. Discuss the nature of scientific knowledge in biology, its limits and strengths, and how it is documented.

3. Required Materials

(a) Texts: materials provided online and in modules

(b) Other: materials provided online and in modules

4. Course Content and Schedule

THIS IS AN ASYNCHRONOUS COURSE. YOU WILL WORK ON EACH MODULE AT YOUR OWN PACE WITHIN THE TIME FRAMES PROVIDED AND SUBMIT EACH MODULE BY THE DUE DATE LISTED ON THIS COURSE OUTLINE. TO ASSIST/ FACILITATE/ TEACH/ HELP THE INSTRUCTOR IS AVAILABLE DURING THE FOLLOWING TEACHING HOURS/ OFFICE HOURS. COMPLETE THE MODULES WELL BEFORE THE DUE DATE SO THAT YOU HAVE PLENTY OF TIME TO ASK QUESTIONS AND LEARN THE CONCEPTS FOUND WITHIN THE MODULES YOU WILL SUBMIT BEFORE THEIR DUE DATE. THERE IS NO REASON NOT TO DO WELL IN THIS COURSE BUT YOU MUST BE DISCIPLINED IN YOUR STUDIES, ASK QUESTIONS WHEN NECESSARY AND ORGANIZE YOUR TIME ACCORDINGLY! ALL COMMUNICATION BETWEEN INSTRUCTOR AND STUDENTS WILL BE THROUGH EMAIL. MODULES WILL BE SENT TO STUDENTS VIA EMAIL, STUDENTS WILL SEND COMPLETED MODULES BACK TO INSTRUCTOR VIA EMAIL, AND INSTRUCTOR WILL RETURN GRADED MODULES TO STUDENTS VIA EMAIL. THE ONLY ROLE D2L WILL PLAY IN THIS COURSE IS TO KEEP TRACK OF STUDENT GRADES AND TO HAVE THOSE GRADES AVAILABLE FOR STUDENTS TO TRACK THEIR INDIVIDUAL PROGRESS IN THE COURSE.

INSTRUCTOR AVAILABLE:

Biol 124 D01A/B: M/Tu/W/Th 9:30-12:20 and M/Tu/W/Th 1:30-4:20PM

Biol 124 D02A/B: M/Tu/W/Th 9:30-12:20 and M/Tu/W/Th 1:30-4:20PM

Note: Instructor also available outside of these times but there may be a delay in response time

Communication for this course will be via:

email: raju@camosun.bc.ca

and phone (250)384-4479

D2L will only be used to post grades for completed course Modules

YOU HAVE BEEN CONTACTED BY THE INSTRUCTOR VIA THE EMAIL YOU ARE LISTED UNDER IN CAMLINK OF THE CAMOSUN COLLEGE DATA BASE AND MUST RESPOND BY THE FIRST DAY OF CLASSES BY EMAIL WITH YOUR FULL NAME AND STUDENT NUMBER IN THE SUBJECT LINE OF THE EMAIL TO VERIFY YOUR IDENTITY AND TO HOLD YOUR SEAT IN THE COURSE. AFTER YOU RESPOND TO THE EMAIL FROM THE INSTRUCTOR YOU WILL RECEIVE THE COURSE OUTLINE WHICH YOU ARE TO READ CAREFULLY, FOLLOW THE DIRECTIONS WITHIN AND THEN REPLY ONCE AGAIN BY EMAIL TO THE INSTRUCTOR WITH THE REQUIRED INFORMATION THE COURSE OUTLINE ASKS OF YOU. THIS COURSE OUTLINE REQUESTS THAT YOU PROVIDE THE FOLLOWING INFORMATION SO THAT YOU MAY RECEIVE MODULE 1 DURING THE FIRST WEEK OF CLASSES AND THUS ALLOW YOU TIME TO COMPLETE AND SUBMIT MODULE 1 BY FRIDAY, JANUARY 22, 2021 OF THE SECOND WEEK OF CLASSES THE DUE DATE OF THE FIRST MODULE:

- 1) **Subject line of email: Full Name and student number once again**
- 2) **In the body of the email:**
 - a) **Once again your full name**
 - b) **Once again your student number**
 - c) **The email address you wish to use for the course (make sure this email address matches the email listed for you on CAMLINK**
 - d) **Any Questions you may have about the Course outline thus far (Please Note the way in which this course works will become more clear after you receive and begin work on Module 1 (The course is not based on memorization and regurgitation teaching methods but rather is based on learning through student centered processes such as active learning and discovery to achieve the learning outcomes of the course. The learning is in the search. In other words those that do the doing do the learning. For meaningful and long lasting learning it is my belief that you can not be a passive participant in the process but rather must be the investigator in an investigation and**

the investigation you have been assigned is Biology 124. I hope you enjoy the course and make the most of it. After all, you get out of life what you put into it).

MODULE #	LECTURE ACTIVITY	SIMULATED LAB	FRIDAY DUE DATE	% OF GRADE
1	Prokaryotes	Species at Risk Study	January 22	10% grade= /10
2	Protist Diversity	Identification of Protists	January 29	10% grade= /10
3	Fungi Diversity	Identification of BC Mushrooms	February 5	10% grade= /10
4	Method of Scientific Inquiry	Scientific Inquiry Investigation	February 12	10% grade= /10
5	Plant Diversity	Identification of Native BC Plants	February 26	10% grade= /10
6	Evolution	Experimental Study in Evolution	March 5	10% grade= /10
7	Invertebrate Diversity	Identification of BC Invertebrates	March 12	10% grade= /10
8	Diversity & Ecology	Ecological Study in Diversity	March 19	10% grade= /10
9	Chordate Diversity	Identification of BC Chordates	March 26	10% grade= /10
10	Cumulative Final Lecture Exam	Cumulative Final Lab Exam	April 16	10% grade= /10

5. Basis of Student Assessment (Weighting)

TEN COMPLETED MODULE PROJECTS MAKE UP THE COURSE. EACH COMPLETED MODULE IS WORTH UP TO TEN PERCENT OF THE FINAL GRADE. THE MARKS RECEIVED FOR EACH MODULE ARE ADDED TOGETHER TO DETERMINE A STUDENT'S FINAL GRADE (IN PERCENT) OUT OF ONE HUNDRED (TOTAL POSSIBLE MARKS). ALL GRADES WILL BE PLACED ON D2L SO THAT STUDENTS CAN SEE HOW THEY ARE PROGRESSING AS THE COURSE PROGRESSES. (THE ONLY PURPOSE D2L WILL SERVE FOR THIS COURSE IS IN RELATION TO GRADES)

6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

8. College Supports, Services and Policies



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence, Student Ancillary Fees, Academic Integrity, Grade Review & Appeals, Student Misconduct and Academic Accommodations for Students with Disabilities and Student Penalties and Fines.

A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://camosun.ca/about/policies/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.